

JUL 10 2007

Application No. 10/716,190

Filed: November 18, 2003

TC Art Unit: 1732

Confirmation No.: 4133

OT to
enter 8/16/07

SUMMARY OF THE CLAIMS

Claim 1 (Currently amended). A method for controlling a thickness of a skin layer on a composite product having the skin layer and a core layer, comprising steps of:

(a) adding a carbon nanomaterial to at least one of either a first thermoplastic resin ~~under~~ a second thermoplastic resin, to cause or increase a difference in viscosity between those resins; and

(b) injection molding the first thermoplastic resin into a mold through a gate or hot runner using a first injection machine; and

(c) injection molding the second thermoplastic resin into the mold through said gate or hot runner using a second injection machine,

wherein said second thermoplastic resin is injected into said first thermoplastic resin so that the skin layer of said composite product contains said first thermoplastic resin and the core layer contains said second thermoplastic resin, and

~~both said resins into a mold~~

~~wherein the thickness of the skin layer is controlled by said difference in viscosity to produce said composite product having the skin layer containing said first thermoplastic resin and the core layer containing said second thermoplastic resin so as to control the thickness of the skin layer by said difference in viscosity,~~

~~wherein:~~

~~said first thermoplastic resin is firstly injected into the mold through a gate or hot runner by a first injection machine, and~~

-3-

WEINGARTEN, SCHURGER,
GACHESIN & LESOVICI LLP
TEL. (617) 542-2290
FAX. (617) 451-0213